No. 7300083

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Florida Foundation Seed Producers, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF seventeen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, [THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM] TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS REQUIRED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

* [Waived]

SOYBEAN

'Hutton'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of* Washington *this* 20th *day of* November *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

L. E. Rollins

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Earl L. Butz

Secretary of Agriculture

Plant Variety Protection Office
Grain Division, Agricultural Marketing Service
U. S. Department of Agriculture
Hyattsville, Maryland 20782

Gentlemen:

Subject: Application No. 7300083
Variety and Kind - Soybean 'Hutton'

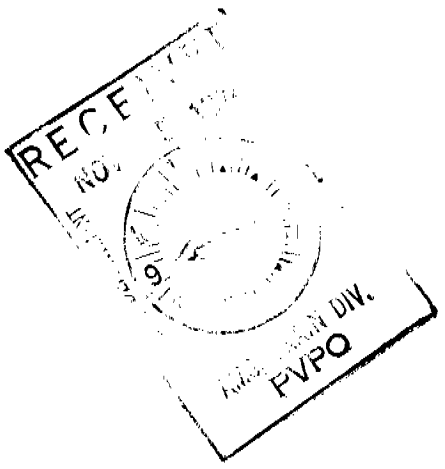
As provided in section 83(a) of the Plant Variety Protection Act, 7 U.S.C. 2321, we request that the Certificate on the above variety be issued with a notation on each Certificate that the right to exclude others from selling, offering for sale, reproducing, importing or exporting the variety covered by this Certificate, or using it in producing a hybrid or different variety is waived.

It has been agreed that the certificate should be issued in the name(s) of:

FLORIDA FOUNDATION SEED PRODUCERS, INC.

11-1-74
DATE

A. J. Oswald



FORM GR-470
(2-12-71)

UNITED STATES DEPARTMENT OF AGRICULTURE
CONSUMER AND MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION	2. KIND NAME	FOR OFFICIAL USE ONLY
Hutton	Soybeans	PVPO NUMBER 73083
3. GENUS AND SPECIES NAME	4. FAMILY NAME *(Botanical)*	FILING DATE 3-29-73 / TIME 3:00 P.M.
Glycine max	Leguminoseae	
	5. DATE OF DETERMINATION	FEE RECEIVED $ 750.00 / CHARGES
	October 1, 1972	

6. NAME OF APPLICANT(S)	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)*	8. TELEPHONE AREA CODE AND NUMBER
Florida Foundation Seed Producers, Incorporated	P.O. Box 14006, University Station Gainesville, Florida 32601	904-392-1821

9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)*	10. STATE OF INCORPORATION	11. DATE OF INCORPORATION
Corporation	Florida	1957

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers

A. J. Oswald, Secretary-Treasurer-Manager
Florida Foundation Seed Producers, Inc.
P. O. Box 14006, University Station
Gainesville, Florida 32601

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- [V] 12A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52, P.L. 91-577)*
- [V] 12B. Exhibit B, Botanical Description of the Variety
- [V] 12C. Exhibit C, Objective Description of the Variety
- [V] 12D. Exhibit D, Data Indicative of Novelty
- [V] 12E. Exhibit E, Statement of the Basis of Applicant's Ownership

The applicant declares that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable. *(See Section 52, P.L. 91-577).*

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? *(See Section 83(a), P.L. 91-577) (If "Yes," answer 14B and 14C below.)* [V] YES [ ] NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? [V] YES [ ] NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed?
Four (4) - see attached chart

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

The undersigned applicant(s) of this sexually-reproduced novel plant variety believes that the variety is distinct, uniform, and stable as required in Section 41 and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act (P.L. 91-577).

3/26/73
(DATE)

Knull Hinson
(SIGNATURE OF APPLICANT) Breeder

3/26/73
(DATE)

S. West
(SIGNATURE OF APPLICANT) U. of Fla., Representative

3/26/73
(Date)

A. J. Oswald
(Signature of Applicant) Manager-Fla. Foundation Seed Producers

EXHIBIT A

Origin and Breeding History of the Variety

1. Hutton originated from the hand pollinated cross F55-822 x (Roanoke x CNS-4) made at Gainesville, Florida in 1957. F55-822 is an F_4 line from the cross Jackson x D49-2491, and is the parent line from which the variety Bragg was selected. D49-2491 is closely related and nearly identical to Lee. Roanoke and CNS-4 are described in Supplement 1 to Service and Regulatory Announcements No. 156, "Rules and Regulations Under the Federal Seed Act", Washington, D. C., November, 1957.

2. Plant selections were made in the F_5 generation (1962) and plant progeny rows were grown in 1963. One selection designated F63-4000 has been tested in United States Department of Agriculture Uniform Regional Test VIII since 1966. F63-4000 was named Hutton in 1972.

3. Initial increases of breeder seed contained about one white flowered plant per 1,000 and one plant in 5,000 to 10,000 that was about 6 inches taller than true Hutton types. These are contaminants and are not being propagated in future increases of breeder seed. There is about a 3-day range in flowering date among plants of Hutton. This is not an instability factor, but is inherent in the variety. Some environments will cause stems to remain green after pods mature. As in all other soybean varieties, mutations to "self-colored" seed will occur. In Hutton these mutations will cause seed coats to be black. We know of no other instability or variant traits, other than those unpredictable ones that will eventually occur through normal mutation rates.

73083

EXHIBIT B

Botanical Description of the Variety

Hutton has a determinate growth habit, ovate leaves, purple flowers, brown pubescence, and tan pod walls. Seeds have yellow coats, yellow cotyledons and black hila. Weight per 100 seeds (5 year average) for Hutton, Hampton and Bragg is 16.7, 15.3, and 14.8 grams, respectively. Hutton is in maturity group VIII. When planted on June 10 at Gainesville, Florida, it flowers about July 30, matures October 22-24, and is about 95 to 100 centimeters tall. In maturity date and plant height, it is similar to Hampton. For other plant traits (except flower color) it closely resembles Bragg.

Exhibit C
(Soybean)

AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY
SOYBEAN *(GLYCINE MAX)*

INSTRUCTIONS: *See Reverse.*

NAME OF APPLICANT(S)
Florida Foundation Seed Producers, Incorporated

ADDRESS *(Street and No., or R.F.D. No.; City, State, and ZIP Code)*
P.O. Box 14006, University Station
Gainesville, Florida 32601

FOR OFFICIAL USE ONLY
PVPO NUMBER

VARIETY NAME OR TEMPORARY DESIGNATION

Place the appropriate number that describes the varietal character of this variety in the boxes below.

1. SEED SHAPE:
[2] 1 = SPHERICAL 2 = SPHERICAL FLATTENED 3 = ELONGATE 4 = OTHER *(Specify)*

2. SEED COAT COLOR:
[1] 1 = YELLOW 2 = GREEN 3 = BROWN 4 = BLACK 5 = OTHER *(Specify)*
SHADE: [2] 1 = LIGHT 2 = MEDIUM 3 = DARK

3. SEED COAT LUSTER:
[1] 1 = DULL 2 = SHINY

4. SEED SIZE
[1][7] GRAMS PER 100 SEEDS

5. HILUM COLOR:
[6] 1 = BUFF 2 = YELLOW 3 = BROWN 4 = GRAY 5 = IMPERFECT BLACK 6 = BLACK 7 = OTHER *(Specify)*
SHADE: [2] 1 = LIGHT 2 = MEDIUM 3 = DARK

6. COTYLEDON COLOR:
[1] 1 = YELLOW 2 = GREEN

7. LEAFLET SIZE *(See Reverse)*:
[2] 1 = SMALL 2 = MEDIUM 3 = LARGE

8. LEAFLET SHAPE:
[1] 1 = OVATE 2 = OBLONG 3 = LANCEOLATE 4 = ELLIPTICAL 5 = OTHER *(Specify)*

9. LEAF COLOR *(See reverse)*:
[2] 1 = LIGHT GREEN 2 = MEDIUM GREEN 3 = DARK GREEN

10. FLOWER COLOR:
[2] 1 = WHITE 2 = PURPLE 3 = OTHER *(Specify)*

11. POD COLOR:
[1] 1 = TAN 2 = BROWN 3 = BLACK

12. POD SET:
[1] 1 = SCATTERED 2 = CONCENTRATED

13. PLANT PUBESCENCE COLOR:
[2] 1 = GRAY 2 = BROWN 3 = OTHER *(Specify)*
SHADE: [2] 1 = LIGHT 2 = MEDIUM 3 = DARK

14. PLANT TYPES *(See Reverse)*:
[3] 1 = SLENDER 2 = BUSHY 3 = INTERMEDIATE

15. PLANT HABIT:
[1] 1 = DETERMINATE 2 = INDETERMINATE 3 = OTHER *(Specify)*

16. HYPOCOTYL COLOR:
[2] 1 = GREEN 2 = PURPLE

17. SEED PROTEIN:
[ ] 1 = A 2 = B

18. NUMBER OF DAYS TO FLOWERING
Place a zero in first box (e.g. [0][9]) when days are 9 or less.)
[5][1]

19. MATURITY GROUP:
[10] 1 = 00 2 = 0 3 = I 4 = II 5 = III 6 = IV 7 = V 8 = VI 9 = VII 10 = VIII

20. SIZE OF 10 DAY OLD SEEDLING GROWN UNDER CONSTANT LIGHT *(Growth Chamber)* AT 25° C. *(Place a zero in first box (e.g. [0][2]) when size is 9 mm. or less.)*
[ ][ ][ ] MM. LENGTH OF SEEDLING
[ ][ ] MM. LENGTH OF COTYLEDON
[ ][ ] MM. WIDTH OF COTYLEDON

21. DISEASE: *(Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)*

[2] BACTERIAL PUSTULE	[1] SOYBEAN CYST	[1] DOWNY MILDEW	[0] PURPLE STAIN	[0] POD AND STEM BLIGHT	[2] ROOT KNOT
[1] FROGEYE	[0] STEM CANKER	[1] PHYTOPHTHORA	[0] BROWN STEM ROT	[2] TARGET SPOT	[0] BROWN SPOT
[0] BUD BLIGHT	[2] WILDFIRE	[0] RHIZOCTONIA ROT	[ ] OTHER *(Specify)*		

FORM GR-470-2 (REVERSE)

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant shape	Bragg	Petiole angle	Bragg
Leaf shape	Bragg	Seed size	Hampton
Leaf color	Bragg	Seed shape	Bragg
Leaf surface	Bragg	Seedling pigmentation	Lee

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY:

VARIETY	NO. OF DAYS TO MATURITY	LODGING SCORE	PLANT HEIGHT	LEAF SIZE		CONTENT		AVERAGE NO. OF PODS PER PLANT	IODINE NO.
				Width	Length	Protein	Oil		
Submitted	145	2.0	38"			42.4	21.3%	varies with plant population	No data
Name of similar variety	Hampton	Hampton	Hampton			None similar	None similar		

INSTRUCTIONS

GENERAL: The following publications may be used as a reference aid for completing this form:

1. Scott, Walter O. and Samuel R. Aldrich, 1970, Modern Soybean Production, The Farmer Quarterly.
2. Norman, A. G., 1963, The Soybean: Genetics, Breeding, Physiology, Nutrition, Management.
3. McKie, J. W., and K. L. Anderson, 1970, The Soybean Book.

LEAF COLOR: Nickerson's or any recognized color fan may be used to determine the leaf color of the described variety. The following Soybean varieties may be used as a guide to identify the colors listed on the form.

COLOR	VARIETY
Light Green	"Ada"
Medium Green	"Wilkin"
Dark Green	"Swift"

LEAF SIZE: The following varieties may be used as a guide to identify the relative size leaves.

SIZE	VARIETY
Small	"Amsoy"
Medium	"Bonus"
Large	"Anoka"

PLANT TYPE: The following varieties may be used as a guide to identify the plant type.

TYPE	VARIETY
Slender	"Vansoy"
Intermediate	"Wirth"
Bushy	"Adelphia"

EXHIBIT D

Data Indicative of Novelty

Hutton resembles Bragg more than it does any other variety. They are similar in plant type, pubescence color, seed shape, seed color and disease reaction, but Hutton has purple flowers (contrasted to white for Bragg), matures about eight days later than Bragg and has higher percent protein and lower percent oil. Hutton differs from Hampton in pubescence color, pod wall color, percent protein, percent oil and rootknot reaction. Hutton is taller and later than Ransom, has higher percent protein and is resistant to rootknot nematodes, whereas Ransom is very susceptible.

EXHIBIT E

Basis of Applicant's Ownership

Florida Foundation Seed Producers, Incorporated, is the representative of the University of Florida Agricultural Experiment Stations, through a Memorandum of Understanding, for releasing and maintaining stocks of varieties developed by the University of Florida.

Dr. Kuell Hinson, a staff member of the University of Florida Agronomy Department, developed and tested this variety in trials as F63-4000 and proved it worthy of release as a new variety. The Florida Foundation Seed Producers, Incorporated, has, therefore, sole rights for increase and distribution of Breeder seed increased and maintained under the guidance of the breeder.

Other states involved in this release who will receive a copy of this application are:

The Georgia Agricultural Experiment Station, Athens

The South Carolina Agricultural Experiment Station, Clemson

The North Carolina Agricultural Experiment Station, Raleigh

The Alabama Agricultural Experiment Station, Auburn

The Texas Agricultural Experiment Station, College Station

These states have been advised of this application and asked to so label their Foundation stocks.

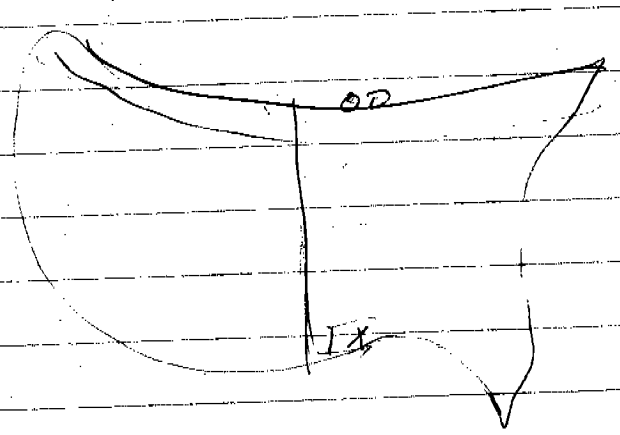
SEED PRODUCTION CHART FOR HUTTON SOYBEANS

Seed Producer	Class of Seed
Florida Agricultural Experiment Station	Breeder
Foundation Seed Organizations	Breeder Increase
Foundation Seed Organizations	Foundation
Seedsmen/Farmers	Registered
Seedsmen/Farmers	Certified
Farmers	Soybeans

Provides for one generation of increase of Breeder seed by Foundation Seed organizations to hedge against production hazards. Any steps can be by-passed but not extended.

0"

0"



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10-14